

IN THE CLAIMS

1. – 15. (canceled)

16. (currently amended) A mobile terminal in a mobile communication system for authenticating a communicating party when communication is performed between the mobile terminal and a device on the side of a network, comprising:

authentication processing means which, when a request signal requesting operation execution is received from a network device, is for executing authentication processing to check whether said request signal is a request signal from an authorized network device; and operation execution means for executing an operation that is in accordance with said request signal ~~only~~ if authentication that the network device is an authorized network device is obtained, wherein said authentication processing means includes:

an authentication necessity table that indicates whether each request received from the network device requires authentication;

means for storing an identifier and key information of a mobile terminal;

a random-number generator for generating any random number when said request signal is received from the network device;

an authentication operation unit for executing a prescribed authentication operation using said key information and random number;

an authentication request signal transmitter for creating an authentication request signal, which includes said terminal identifier and random number, and sending this signal to the network device;

a receiver for receiving an authentication result, which has been obtained by an authentication operation performed on the network side, from the network device; and

a comparator for comparing the authentication result computed by the mobile terminal and the authentication result sent from the network device and deciding that the network device is an authorized network when the compared results agree, wherein

~~said operation execution means executes the operation that is in accordance with said request signal upon deciding that the network device is an authorized network device when the compared results agree,~~

said authentication processing means refers to said table when said request is received from the network device, and executes authentication processing if the received request is one requiring authentication, and said operation execution means executes the operation that is in accordance with said request signal if authentication that the network device is an authorized network device is obtained, and

said authentication processing means foregoes authentication processing if a request is not one requiring authentication, and said operation execution means executes the operation that is in accordance with said request signal, and

~~said request signal is one of a signal requesting that radio wave emissions be inhibited, a signal requesting that inhibition of radio wave emissions be canceled, a signal requesting that the mobile terminal make a transition to power cut-off or to a standby operation, and a signal requesting disclosure of mobile terminal information possessed by the mobile terminal.~~

17. (currently amended) A mobile communication system for authenticating a communicating party when communication is performed between a mobile terminal and a device on the side of a network, wherein

the mobile terminal includes:

authentication processing means which, when a signal requesting execution of

a prescribed operation has been received from a network device, is for sending an authentication request signal to the network device in order to determine whether said request signal is a request signal from an authorized network device; performing an authentication operation; and comparing result of this authentication operation with result of an authentication operation sent from the network device; and

operation execution means for executing an operation that is in accordance

with said request signal ~~only~~ if authentication that the network device is an authorized network device is obtained; and

said network device includes an authentication operation unit for executing an authentication operation based upon an authentication request signal received from said mobile terminal, and sending result of this authentication operation to the mobile terminal, wherein the authentication processing means of said mobile terminal includes:

an authentication necessity table that indicates whether each request received from the network device requires authentication;

means for storing an identifier and key information of a mobile terminal;

a random-number generator for generating any random number when said request signal is received from the network device;

an authentication operation unit for executing a prescribed authentication operation using said key information and random number;

an authentication request signal transmitter for creating an authentication request signal, which includes said terminal identifier and random number, and sending this signal to the network device;

a receiver for receiving result of an authentication operation obtained by an authentication operation of the network device; and

a comparator for comparing result of the authentication operation performed

by the mobile terminal and the result of the authentication operation sent from the network device and deciding that the network device is an authorized network device when the compared results agree, wherein

said authentication processing means refers to said table when said request is received from the network device and executes authentication processing if the received request is one requiring authentication, and said operation execution means executes the operation that is in accordance with said request signal if authentication that the network device is an authorized network device is obtained, and

said authentication processing means foregoes authentication processing if a request is not one requiring authentication, and said operation execution means executes the operation that is in accordance with said request signal, and

said request signal is one of a signal requesting that radio wave emissions be inhibited, a signal requesting that inhibition of radio wave emissions be canceled, a signal requesting that the mobile terminal make a transition to power cut-off or to a standby operation, and a signal requesting disclosure of mobile terminal information possessed by the mobile terminal.

18. – 24. (canceled)